

4/7/2

DIALOG(R) File 351: Derwent WPI

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JP 3-7757 A

008551749

WPI Acc No: 1991-055800/ 199108

Polyester resin moulding compsn. - contains polyethylene terephthalate, polyolefin-glycidyl ester copolymer and reinforcement for high gloss. etc.

Patent Assignee: TORAY IND INC (TORA)

Number of Countries: 001 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 3007757	A	19910114				
199108	B					
JP 91059102	B	19910909				
199140						

Priority Applications (No Type Date): JP 89289399 A 19890101; JP 7937008 A 19790330

Abstract (Basic): JP 3007757 A

Compsn. comprises (A) 100 wt.pts. polyethylene terephthalate,

(B) 1-150 wt.pts. fibrous and/or granular reinforcement, (C) 1-100 wt.pts. olefinic copolymer comprising a 2-4C alpha-olefin and a glycidyl ester of alpha, beta unsatd. carboxylic acid of formula (I). (where R is H or a lower alkyl) and (D) 0.001-10 wt.pts. polyfunctional cpd(s) of epoxysilane, diepoxy cpd., epoxidated polybutadiene, triglycidyl isocyanate, diisocyanate cpd., polyurethane contg. terminal isocyanate gps. or tetracarboxylic acid dianhydride. Pref. (A) is prepd. by polycondensation reacting dicarboxylic acid components contg. at least 40 mol.% terephthalic acid and opt. up to 60 mol.% aliphatic, aromatic or alicyclic dicarboxylic acid and ethylene glycol and has a relative viscosity 1.2-2.0 as measured for the 0.5% soln. in o-chlorophenol at 25 deg.C. The fibrous reinforcement is e.g. of glass, vitrified volcanic balloons, alumina, SiC, ceramic, asbestos, plaster, metal, etc. The granular reinforcement is e.g. wollastonite, sericite kaolin, mica, clay, talc, etc. The glycidyl ester is glycidyl (meth)acrylate, or ethacrylate.

USE/ADVANTAGE - The compsn. provides moulded prods. having high surface gloss, impact resistance and rigidity. The prods. are used as electronic parts, parts for motor cars, etc.

Dwg.0/0

Derwent Class: A23; A32; A95

International Patent Class (Additional): C08G-018/08; C08K-007/02;

C08L-033/41; C08L-063/00; C08L-067/02

4/7/4

DIALOG(R) File 351:Derwent WPI

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003519217

WPI Acc No: 1982-67201E/ 198232

Weather-resistant resin coating compsn. - comprises polyester, glycidyl Gp.-contg. acrylate ester and polyepoxy resin

Patent Assignee: DAINIPPON INK & CHEM KK (DNIN)

Number of Countries: 001 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 57108166	A	19820706	JP 80182928	A	19801225	
198232	B					
JP 89040067	B	19890824				
198938						

Priority Applications (No Type Date): JP 80182928 A 19801225

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 57108166	A		5		

Abstract (Basic): JP 57108166 A

A coating compsn. comprises (A) polyester having an acid value of 20-200 mg KOH/g, softening pt. of 80-150 deg.C and number average mol. wt. of 1,000-10,000 (60-96 wt. pts.), (B) glycidyl gp.-contg. Acrylate ester prepd. from glycidyl acrylate, glycidyl methacrylate, beta-methylglycidyl acrylate or beta-methylglycidyl methacrylate (20-100 wt.%) and other vinylic monomer (0-80 wt.%) and having a number average mol. wt. of 300-5,000 (3-40 wt. pts.) and (C) epoxy resin (1-20 wt. pts.). The copolymerisable monomer for the acrylate polymer is typically styrene, acrylate ester, methacrylate ester, fumarate diester, acrylonitrile or acrylic amide. (C) is e.g. bisphenol A/diglycidyl ether, oxybenzoic acid/glycidyl ester ether, ethylene glycol/diglycidyl ether trimethylol propene, triglycidyl ether, terephthalic acid/diglycidyl ester or triglycidyl isocyanurate. The hardening mixt. of (A) and (B) is compatible with (C) to provide coatings having high weather resistance.

Derwent Class: A14; A21; A23; A82; G02

International Patent Class (Additional): C09D-003/66; C09D-005/00

4/7/3

DIALOG(R) File 351: Derwent WPI

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008147453

WPI Acc No: 1990-034454/ 199005

Anti-yellowing powder paint compsn. - comprise polyester resin, acryl resin contg. monomers of e.g. glycidylacrylate and other glycidyl cpds. of less mol wt.

Patent Assignee: NIPPON OILS & FATS CO LTD (NIOF)

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 1313573	A	19891219	JP 88143235	A	19880610	
199005	B					

Priority Applications (No Type Date): JP 88143235 A 19880610

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 1313573	A		6		

Abstract (Basic): JP 1313573 A

It contains (A) 70-95 wt.pts. of polyester resin with 10-100 acid value, 50-80 deg.C glass transition pt., and 2000-8000 number ave. mol.wt.; (B) 5-30 wt.pts. of acryl resin which contains 20-60 wt.% of monomers of glycidylacrylate, glycidyl methacrylate, beta-methylglycidyl acrylate and beta-methylglycidyl methacrylate and contains glycidyl gps., and/or beta-methyl-glycidyl gps., with 500-6000 number ave. mol.wt.; and (C) 1-10 wt.pts. of glycidyl cpds. With 100-298 wt. (B) is pref. methylmethacrylate and cellosolve methacrylate because of their compatibility with (A). (C) is for example, diglycidyl-terephthalate ester, diglycidyl paraoxybenzoate ester, triglycidyl isocyanulate.

USE/ADVANTAGE - It is used to metal coating of domestic electric appliances such as washing machine, refrigerator, cooler, and road construction materials such as bridge, banisters, gates and fence. The coating membrane obt'd. has smoothness, good out-looking, gloss, anti-impact, anti-pollution, anti-corrosion, weathering resistance, etc. The paint does not produce resin at curing and the membrane does not turn yellow.

Derwent Class: A21; A82; G02; M13

International Patent Class (Additional): C09D-005/03